

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

GENERAL PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

MO-G500000

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

All Outfalls

Discharge of wash water and storm water from sand and/or gravel operations.

This permit authorizes discharges of wastewater, including storm water, under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System from the facilities listed above and does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law and later modified or revoked in accordance with the terms and conditions specified by this permit.

Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date

Interim Director of Staff, Clean Water Commission

| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PAGE NUMBER 2 of 5 | |
|---|---------|----------------------------|----------------|-----------------|--------------------------|------------------------|
| | | | | | PERMIT NUMBER MO-G500000 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Storm Water</u> | | | | | | |
| Flow | MGD | * | | * | once/month** | instantaneous estimate |
| Settleable Solids | mL/L/hr | 1.5 | | 1.0 | once/month** | grab |
| pH - Units | SU | *** | | *** | once/month** | grab |
| Oil and Grease | mg/l | 15 | | 10 | once/month** | grab |
| <u>Wash Water</u> (Note 1) | | | | | | |
| Flow | MGD | * | | * | once/month** | instantaneous estimate |
| Settleable Solids | mL/L/hr | 1.5 | | 1.0 | once/month** | grab |
| pH - Units | SU | *** | | *** | once/month** | grab |
| Oil and Grease | mg/l | 15 | | 10 | once/month** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.

** Sample shall be collected monthly during periods of operation. Monitoring reports shall also be submitted during periods when the facility is not in operation. When no discharge occurs from the treatment facility during the reporting period, the report shall state "no discharge".

*** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

Note 1 - All wash waters shall receive treatment before discharge. Permittee shall collect a sample prior to the discharge leaving the property or entering waters of the state.

SCOPE OF THIS PERMIT

1. This permit only authorizes the discharge of wash water and storm water from sand and gravel operations within the state of Missouri. Storm water discharges include runoff from all disturbed areas, stockpiles and storage areas and waters pumped from basin containing storm water runoff.
2. Holders of site-specific state operating permits who desire to apply for inclusion under this general permit may contact the department for application requirements.
3. The department may at any time require the owner of a sand and/or gravel operation to apply for a site-specific state operating permit when determining that the quality of waters of the state would be better protected by the site-specific state operating permit.
4. This permit does not authorize dredging or the removal of sand or gravel from within the submerged portions of a stream or drainage.
5. This permit authorizes discharges from truck washing that meet the limits specified in Table A of this permit. This permit does not authorize discharges from truck washing operations that include the use of soap or detergents.

OTHER PERMIT REQUIREMENTS

1. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247;
2. Permittee must provide sediment and erosion control sufficient to prevent or control pollution to waters of the state. This could include the use of straw bales, silt fences, or sediment basins, if needed, to comply with effluent limits.
3. Permittee shall adhere to the following Best Management Practices:
 - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehousing activities and prevent the contamination of storm water from these substances.
 - (b) Provide for the collection and proper disposal of waste products including, but not limited to, petroleum waste products and solvents. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, and shall include spill prevention, control and counter measures.

OTHER PERMIT REQUIREMENTS (continued)

3. Permittee shall adhere to the following Best Management Practices: (continued)
- (c) Store all paint, solvents, petroleum products, and petroleum waste products in appropriate storage containers (such as drums, cans, or cartons) so that these materials are safely contained and not exposed to storm water.
 - (d) Provide good housekeeping practices on the site to keep trash or other solid waste from entering waters of the state.
 - (e) Designate an individual as responsible for environmental matters. Inspect, once per month on workdays, any structure that functions to prevent pollution from storm water or to remove pollutants from storm water. In addition, inspect these structures within 24 hours of each rainfall event of one inch or more. Inspect the facility in general to ensure that any Best Management Practices are continually implemented and remain effective.
4. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C), and (D), 304(b) (2) and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) Controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test, or other information indicates changes are necessary to assure compliance with Missouri Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's current 303(d) list.

5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - 1. One hundred micrograms per liter (100 µg/L);
 - 2. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - 3. Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - 4. The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an "Application for Transfer of Operating Permit" signed by the seller and buyer of the facility, along with the appropriate modification fee.

PERMIT RENEWAL REQUIREMENTS

Unless this permit is terminated, the permittee shall submit an application for the renewal of this permit no later than six (6) months prior to the permit's expiration date. If the department does not receive an application by the permit's expiration date, the permit will automatically terminate on its expiration date.

TERMINATION OF PERMIT

If the discharges covered by this permit have ceased and the site "closed", the permittee may request termination of this permit prior to its expiration date. The permittee shall submit Form H for "Termination of a General Permit".

If the permittee does not apply for the renewal of this permit, this permit will automatically terminate on the expiration date. Continued discharges from a site that has not been fully stabilized or properly closed are prohibited beyond the expiration date; unless the permit is reissued or the permittee has filed a timely application for the reissuance of this permit.

Date of Fact Sheet: March 8, 1996; October 22, 2001

Date of Public Notice:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-G500000

FACILITY NAME: Sand and Gravel Mining

FACILITY DESCRIPTION AND RATIONALE

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollutant Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). A discharge not in compliance with all permit terms and conditions is unlawful. NPDES permits in Missouri are issued by the Director of the Department of Natural Resources under an approved NPDES program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended).

State programs have the authority to issue general permits to sources of discharge if the Director feels that the discharge is appropriately controlled by a general permit. Storm water discharged from the listed facilities is a point source, and consequently is subject to permit requirements. Because the discharges authorized by this permit covers facilities which: involve the same or substantially similar types of operations; discharge the same types of wastewaters; require the same operating conditions; or require the same monitoring; the Department has determined that the discharges authorized by this permit are eligible for a general permit.

The proposed general permit is for a discharge from sand and gravel mining operations located within the State of Missouri. This program permit will allow the discharge of storm water and washwater into waters of the state.

Limits have been placed on settleable solids and pH in order to protect water quality. Monitoring for total suspended solids is also required to determine the amount of the solids entering waters of the state.

If at any time the Missouri Department of Natural Resources determines that the quality of waters of the state may be better protected by requiring the owner of a quarry to apply for an individual State Operating Permit, the Department may do so. If at any time the owner of a limestone quarry desires to apply for an individual State Operating Permit, the owner may do so. This permit does not apply to the discharge of any water other than storm and non-detergent washwaters. This permit is transferable to other owners or operators following the receipt of a complete application for the transfer.

This permit is a previously issued general permit and will be reissued for a period of five years.